

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

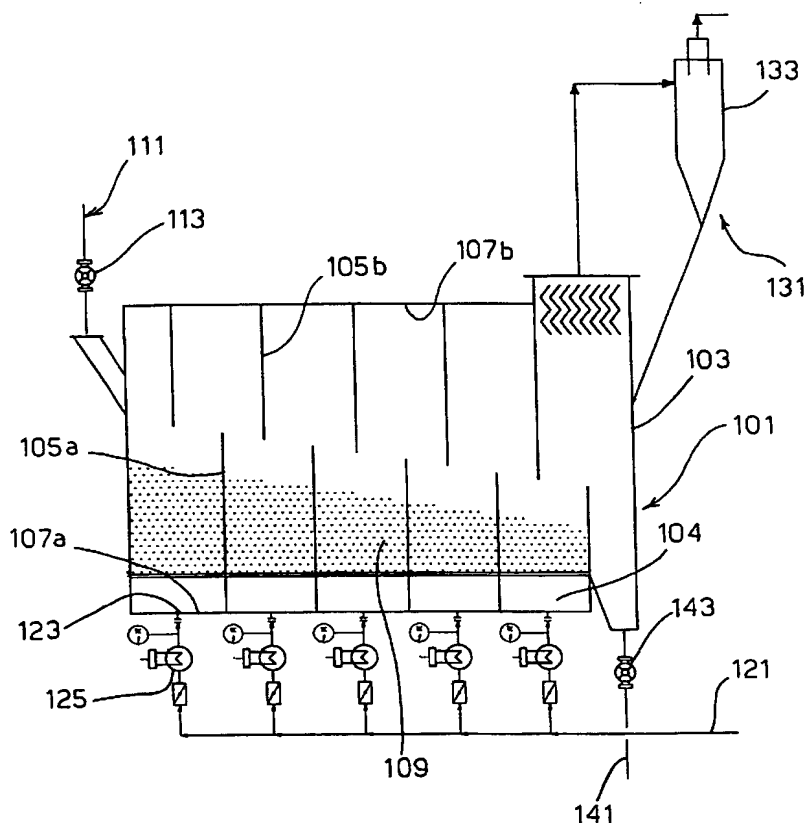
PCT

(10) International Publication Number
WO 2004/058852 A1

- (51) International Patent Classification⁷: **C08G 63/80**,
B01J 19/00
- (21) International Application Number:
PCT/EP2003/011181
- (22) International Filing Date: 9 October 2003 (09.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
TO2002A001124
24 December 2002 (24.12.2002) IT
- (71) Applicant and
(72) Inventor: CAVAGLIA', Giuliano [IT/IT]; Via San Marco
No. 1, I-10020 Pessione Fraz. Di Chieri (IT).
- (74) Agents: ROBBA, Pierpaolo et al.; Interpatent S.R.L., Via
Caboto, No. 35, I-10129 Torino (IT).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: REACTOR AND PROCESS FOR SOLID PHASE CONTINUOUS POLYMERISATION OF POLYETHYLENE TEREPHTHALATE (PET)



(57) Abstract: A reactor and a process for solid phase continuous polymerisation of polyethylene terephthalate (PET) in order to achieve an increase of the intrinsic viscosity (I.V.) of a low molecular weight PET pre-polymers flow, wherein the formation of a plurality of fluidised stages in series (109; 309) is provided, being said PET pre-polymers flow fed into said fluidised stages in series (109; 309) and being an inert gas flow fed either in cross-flow or in counter-current flow with respect to said PET pre-polymers flow.

WO 2004/058852 A1



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(15) Information about Correction:

see PCT Gazette No. 40/2004 of 30 September 2004, Section II

Published:

— *with international search report*

(48) Date of publication of this corrected version:

30 September 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.